

In The Claims

Upon approval of the Examiner, please amend Claims 1, 7, 17 and 45, as follows:

1. **(Currently Amended)** A radially expanded threaded tubular assembly that has been radially expanded from within after a connection of male and female elements so as to define oilfield tubular goods, said assembly comprising:

a radially expandable male threaded element having external male threading and a first free end, the external male threading including a first incomplete thread and a first hooked thread, the first incomplete thread being located at least adjacent the first free end of said male threaded element;

a radially expandable female threaded element having internal female threading and a second free end, the internal female threading including a second incomplete thread and a second hooked thread, the second incomplete thread being located at least adjacent the second free end of said female threaded element, said female threaded element being threadedly engaged with said male threaded element with a greaseless elastomeric sealant disposed between said threaded elements; and wherein

an said greaseless elastomeric sealant extends extending between the external male threading and the internal female threading and adheres adhering to both the external male threading and the internal female threading, and is cured to an elastic modulus less than about 2.0 MPa (290 p.s.i.) said cured greaseless elastomeric sealant became remaining extended and adhered between said threaded elements while being elongated after curing while remaining extended between and adhered to the external male threading and the internal female threading upon the assembly being radially expanded from within the male threaded member in the intended use.

2. **(Previously Presented)** An assembly according to claim 1, wherein said elastomeric sealant is elongated at least about 45 percent after curing while remaining extended between and adhered to each of the external male threading and the internal female threading.

3. **(Previously Presented)** An assembly according to claim 1, wherein said elastomeric sealant is elongated at least about 100 percent after curing while remaining extended between and adhered to each of the external male threading and the internal female threading and has an elastic modulus less than about 1.0 MPa (145 p.s.i.).

4. **(Previously Presented)** An assembly according to claim 1, wherein said elastomeric sealant is elongated at least about 400 percent after curing while remaining extended between and adhered to each of the external male threading and the internal female threading and has an elastic modulus between about 0.5 MPa (73 p.s.i.) and about 2.0 MPa (290 p.s.i.).

5. **(Original)** An assembly according to claim 4, wherein said elastomeric sealant is adhered to each of the external male threading and the internal female threading with an adhesion-to-rigid-substrate of at least 0.35 MPa (51 p.s.i.).

6. **(Original)** An assembly according to claim 4, wherein said elastomeric sealant is adhered to each of the external male threading and the internal female threading with an adhesion-to-rigid-substrate of at least 0.7 MPa (102 p.s.i.).

7. **(Currently Amended)** An assembly according to claim 6, wherein said greaseless elastomeric sealant is a greaseless elastomeric sealant comprises a viscous paste or a liquid before curing that becomes a rubber-like solid after curing.

8. **(Original)** An assembly according to claim 7, wherein said greaseless elastomeric sealant is capable of curing in the absence of oxygen and in the absence of humidity.

9. **(Original)** An assembly according to claim 8, wherein said greaseless elastomeric sealant is a polysulfide sealant or a polyurethane sealant.

10. **(Original)** An assembly according to claim 9, wherein said greaseless elastomeric sealant is a viscous paste or a liquid before curing and is a rubber-like solid after curing.
11. **(Original)** An assembly according to claim 1, wherein said male threaded element and said female threaded element threadedly engage each other to form a flush joint connection.
12. **(Original)** An assembly according to claim 11, wherein each of the first incomplete thread and the second incomplete thread has a perfect crest and an imperfect root.
13. **(Original)** An assembly according to claim 12, wherein each of the first incomplete thread and the second incomplete thread is also a hooked thread.
14. **(Original)** An assembly according to claim 13, wherein the first incomplete thread is the initial thread adjacent the first free end of said male threaded element, and the second incomplete thread is the initial thread adjacent the second free end of said female threaded element.
15. **(Original)** An assembly according to claim 14, wherein at least one of said male threaded element and said female threaded element includes a torque shoulder.
16. **(Original)** An assembly according to claim 15, wherein the torque shoulder is a reverse torque shoulder.
17. **(Currently Amended)** A radially expanded threaded tubular assembly that has been radially expanded from within after a connection of male and female elements so as to define oilfield tubular goods, said assembly comprising:
- a radially expandable male threaded element having external male threading and a first free end, the external male threading including a first incomplete thread and a first

hooked thread, the first incomplete thread being located at least adjacent the first free end of said male threaded element;

a radially expandable female threaded element having internal female threading and a second free end, the internal female threading including a second incomplete thread a second hooked thread, the second incomplete thread being located at least adjacent the second free end of said female threaded element;

a first metallic coating disposed on and adhered to the external male threading; and
a second metallic coating disposed on and adhered to the internal female threading, wherein said female threaded element is threadedly engaged with said male threaded element and thereby cold welds the first and second metallic coatings together characterized in that said first metallic coating ~~became~~ remains cold welded to said second metallic coating upon the assembly being radially expanded from within the male threaded member in the intended use.

18. **(Original)** An assembly according to claim 17, wherein each of said first metallic coating and said second metallic coating is a ductile metal and has a yielding tension less than about 100 MPa (14.5 k.s.i.).

19. **(Original)** An assembly according to claim 17, wherein each of said first metallic coating and said second metallic coating is a ductile metal and has a yielding tension less than about 20 MPa (2.9 k.s.i.).

20. **(Original)** An assembly according to claim 19, wherein each of said first metallic coating and said second metallic coating allows a principal shear strain of at least about 100 percent without fracturing and without fissure propagation.

21. **(Original)** An assembly according to claim 17, wherein one of said first metallic coating and said second metallic coating is an alloy, and the other of said first metallic coating and said second metallic coating is an alloy or a pure metal.

22. **(Original)** An assembly according to claim 17, wherein each of said first metallic coating and said second metallic coating is a pure metal.

23. **(Original)** An assembly according to claim 22, wherein the pure metal contains 99.99 percent by weight of a single metal.

24. **(Original)** An assembly according to claim 23, wherein the single metal is selected from the group consisting of Copper, Aluminum, Lead, Zinc, Tin and Magnesium.

25. **(Original)** An assembly according to claim 23, wherein the single metal is selected from the group consisting of Lead, Zinc and Tin.

26. **(Previously Presented)** An assembly according to claim 25, wherein upon connection each of said first metallic coating and said second metallic coating had a thickness at least about one-sixteenth of a gap between the engaged internal female threading and the external male threading.

27. **(Previously Presented)** An assembly according to claim 26, wherein upon connection each of said first metallic coating and said second metallic coating had substantially the same thickness and is of the same pure metal.

28. **(Previously Presented)** An assembly according to claim 26, wherein upon connection at least one of said first metallic coating and said second metallic coating had a varying thickness, and each of said first metallic coating and said second metallic coating is of the same pure metal.

29. **(Original)** An assembly according to claim 17, wherein said radially expandable male threaded element and said radially expandable female threaded element threadedly engage each other to form a flush joint connection.

30. **(Original)** An assembly according to claim 29, wherein each of the first incomplete thread and the second incomplete thread has a perfect crest and an imperfect root.

31. **(Original)** An assembly according to claim 30, wherein each of the first incomplete thread and the second incomplete thread is also a hooked thread.

32. **(Original)** An assembly according to claim 31, wherein the first incomplete thread is the initial thread adjacent the first free end of said male threaded element, and the second incomplete thread is the initial thread adjacent the second free end of said female threaded element.

33. **(Original)** An assembly according to claim 32, wherein at least one of said male threaded element and said female threaded element includes a torque shoulder.

34. **(Original)** An assembly according to claim 33, wherein the torque shoulder is a reverse torque shoulder.

35-44. **(Cancelled)**

45. **(Currently Amended)** An expandable sealed tubular joint that has been radially expanded from within after connection of a pair of elements so as to define a sealed and threaded joint portion of oilfield tubular goods comprising:

a pair of radially expandable elements each having threading at a free end thereof and coupled to one another, the threading including hooked incomplete threads being located at least adjacent the free ends; and

a sealing substance comprising a greaseless elastomeric sealant that (i) is capable of being elongated at least about 100 percent while remaining extended between and adhered to the threading of one radially expandable element and the threading of the other radially expandable element, (ii) is adhered to the threading with an adhesion-to-rigid-substrate of at least 0.35 MPa (51 p.s.i.); and (iii) has an elastic modulus between about 0.5 MPa (73 p.s.i.) and about 2.0 MPa (290 p.s.i.), wherein

said greaseless elastomeric sealant is applied as a viscous paste or a liquid upon at least one threading, becomes a rubber-like solid after curing and then adheres and extends extending between and adhering to the threading of one radially expandable element and the threading of the other radially expandable element upon the connection, characterized in that after said radial expansion from within of said coupled pair of radially expandable elements in the intended use said sealing substance remains extended between and adhered to both the threading of one radially expandable element and the threading of the other radially expandable element.

46-47. **(Cancelled)**